

about the tenth part of an Inch, and its height an Inch or more. For by this means, if the Axis of the Prism be Parallel to the Perpendicular of the Triangle, the Image *pt* will now be formed of Equicrural Triangles *ag*, *bb*, *ci*, *dk*, *el*, *fm*, &c. and innumerable other intermediate ones answering to the Triangular hole in shape and bigness, and lying one after another in a continual Series between two Parallel Lines *af* and *gm*. These Triangles are a little intermingled at their Bases but not at their Vertices, and therefore the Light on the brighter side *af* of the Image where the Bases of the Triangles are is a little compounded, but on the darker side *gm* is altogether uncompounded, and in all places between the sides the Composition is Proportional to the distances of the places from that obscurer side *gm*. And having a Spectrum *pt* of such a Composition, we may try Experiments either in its stronger and less simple Light near the side *af*, or in its weaker and simpler Light near the other side *gm*, as it shall seem most convenient.

But in making Experiments of this kind the Chamber ought to be made as dark as can be, least any forreign Light mingle it self with the Light of the Spectrum *pt*, and render it compound; especially if we would try Experiments in the more simple Light next the side *gm* of the Spectrum; which being fainter, will have a less Proportion to the forreign Light, and so by the mixture of that Light be more troubled and made more compound. The Lens also ought to be good, such as may serve for Optical Uses, and the Prism ought to have a large Angle, suppose of 70 degrees, and to be well wrought, being made of Glass free from Bubbles and Veins, with its sides not a little Convex or Concave as usually happens but truly Plane, and its polish elaborate, as in working Optick-glasses,

glasses, and not whereby the edge there are left all very little Conv also of the Prism irregular Refract glewed on. And the Chamber wh periment, ought black Obstacles. reflected every w oblong Spectrum things so much I it will promote v very scrupulous I It's difficult to g and therefore I with pieces of br Water. And to pregnated the W.

P R

*Homogeneous Light
splitting or shat
of Objects seen
Light arises fro
of Rays.*

THE first
sufficiently
further appear by